

## BAYERISCHE MOTOREN WERKE AG

EXECUTIVE ORDER A-008-0182-1 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515-39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODE		TEST GROUP				VEHICLE TYPE C=passenger car; LDT=light-duty uck; MDV=medium-duty vehicle; LVW=loaded vehicle weight; ALVW=adjusted LVW)	EXHAUST EI STANDARD C. (LEV=low emiss) TLEV= transitic ULEV=ultra SULEV=supe	ATEGORY on vehicle; onal LEV; LEV;		(HAUST & ORVR / EVAPORATIVE FUL LIFE (UL) (miles)	FUEL TYPE (CNG/LNG=compressed/ liquefied natural gas; LPG=liquefied petroleum gas)				
2005		5BMXV04.4LEV			<u>.</u>	PC	LEV		100K	/ 150K (EVAF 1 and 3) DK / 100K (EVAF 2)	Gasoline				
No.		PORA IILY (E		isid (fix)	No.	SPECIAL FEATUREMISSION CONTROL S		*= not app		OC/TWC=oxidizing/3-way	cat. ADSTWC=adsorbing TWC O2S=oxygen sensor/heated O2S				
. 1	5BM	XR009	90E60	8	1	2TWC, 2HAFS,	2HO2S, SFI, AIR, C	AFS/HAFS=air-fuel ratio s	ensor/heated AFS_EGR=exhaust -						
2	5BM	XR0158E65			2		*	gas recirculation AIR/PAI AIR MFI/SFI= multiport	R=secondary air injection/pulsed t fuel injection/sequential MFI						
3	5BM	XR012	R0128E85				*		TBI= throttle body injection TC/SC=turbo /super char- CAC=charge air cooler OBD (F) / (P)=full /partial on-b						
4		*			4		*	diagnostic prefix 2=paral	ilel (2) suffix=series						
EVAF No.		ECS No.	ENGII SIZE (			VEHICLE MAKES & MODELS	VEHICLES SUBJ STANDARDS AR			BBREVIATIONS:					
1		1	4.4			BMW: 545i, 645Ci, 645Ci Convertible									
2		1	4.4												
3		1 4.4			BMW: 545i, 645Ci, 645Ci Convertible										
*	- 1	*	*		T			*							

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows (compliance with the 50 °F testing requirement (for TLEV, LEV, ULEV, SULEV) may have been met based on the manufacturer's submitted compliance plan in lieu of testing). Any debit in the manufacturer's "NMOG Fleet Average" (PC and LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required. (For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

AVE	OG FLI RAGE [	EET g/mi]		) RAF = * !AF = *	NMOG or	CH4=methane NMOG=non-CH4 organic gases NMHC=non-CH4 hydrocarbons CO=carbon monoxide NOx=oxides of nitrogen HCHO=formaldehyde PM=particulate matter RAF=reactivity adjustment factor 2/3 D [g/test]=2/3 day diurnal+hot-soak RL [g/mi]=running loss ORVR [g/gallon dispensed]=on-board refueling vapor recovery g=gram											
CER	CERT STD		NMOG	NMHC	NMHC STD [g/mi]	mg=millig	UL"SUAK K	⊏ [8/այ]=տ	иппing ios =1000 mile	S UKVK	[g/galloi	n dispensed]: Fahrenheit	=on-board ri	efueling vap	or recovery ederal test p	g≖gram	
0.05			CERT [g/mi]	CERT [g/mi]			[g/mi]		Ox [g/mi			[mg/ml]	PM [g		Hwy NO		
Market - Acceptant			[grim]			CERT	STD	CER	TS	י סַן	CERT	STD	CERT	STD	CERT	STD	
		@ 50K	0.037	*	0.075	0.5	3.4	0.1	0	.2	1	15	*	*	0.01	0.3	
		@ UL	0.043	•	0.090	0.6	4.2	0.1	0	.3	1	18	*	*	0.01	0.4	
	@ 50°	F & 4K	0.042	*	0.150	0.7	3.4	0.1	0	.2	1	30	*	*	*		
@ 20	CO [g/mi] SFTP 1 = @ 4K (SULEV, UI @ 20°F & LEV) or 50K (Tier 1, 7								NMHC+NOx [g/mi] [US06]			CO [g/mi] [US06]		NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]	
50	K	SFIP 2	= @ UL (Tier	1, TLEV)	CERT	STD	CERT	STD	CERT	STE	CE	RT STE	CERT	STD	CERT	STD	
CERT	2.9			SFTP 1	•	•	*	*	0.11	0.14	0	.5 8.0	0.11	0.20	0.2	2.7	
STD	10.0			SFTP 2	*	*	•	*	*	*	٠,		*	*	*	•	
@ UL			ATIVE FAN	IILY 1	EVAPORATIVE FAMILY 2				EVAPORATIVE FAMILY 3				E	EVAPORATIVE FAMILY 4			
	3-D	2-0		ORVR	3-D	2-D	RL	ORVR	3-D	2-D	RL	. ORVE		2-D	RL	ORVR	
CERT	0.23	0.3	1 0.02	0.12	0.6	0.5	0.03	0.04	0.45	0.27	0.0	1 0.06	*		*	*	
STD	0.50	0.6	5 0.05	0.20	2.0	2.5	0.05	0.20	0.50	0.65	0.0	5 0.20	*	*	+	•	

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-008-0182 dated October 12, 2004.

Executed at El Monte, California on this day of April 2005.

Allen Lyons, Chief Mobile Source Operations Division